

MEMO ROUTE SLIP Form AEC-83 (Rev. May 14, 1947)		See me about this. Note and return.	For concurrence. For signature.	For action. For information.
TO (Name and unit) R. W. Kirkman Director Inspection Division NEW YORK	INITIALS DATE	REMARKS		
TO (Name and unit)	INITIALS DATE	REMARKS		
TO (Name and unit)	INITIALS DATE	REMARKS		
FROM (Name and unit) May Blaha INS-Hq	REMARKS	Attached for your review and comment are two copies of revised draft summary on loss of material by Eastman Kodak. The other draft summary was held up in response to call from Cleveland that NY had investigated and the report would be written and submitted. The summary has now been amended. If we do not hear from you within two weeks we will assume you have no objection to the revised summary (draft dated 11/3/59).		
PHONE NO.	DATE 11/3/59			

USE OTHER SIDE FOR ADDITIONAL REMARKS

☆ U. S. GOVERNMENT PRINTING OFFICE : 1957—O-422007

ITEM #

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DRAFT

OFFICIAL USE ONLY

MEB 11/3/59

Eastman Kodak Company
Rochester, New York
License No. 31-461-10

Loss of
Byproduct
Material

SYNOPSIS

By letter dated June 12, 1959, licensee reported that eleven luminous markers each containing about 60 millicuries of Hydrogen-3 on tritiated foil had been lost when brackets on which the buttons were installed were removed by persons unknown. All efforts to recover the sources were unsuccessful. No significant radiation hazard was believed to exist as a result of possession of the markers by persons unknown.

NOTIFICATION

Letter from licensee dated June 12, 1959, was received by AEC-NY on June 25, 1959, concerning loss which occurred during May 1959.

SCOPE OF LICENSE

400 sources of 60 millicuries each, total 24 curies of Hydrogen-3 as U.S. Radium Corp. #IAB-252-B-1; 1500 sources of 1 millicurie each, total 1.5 curies of Hydrogen-3 as New England Nuclear Corporation Model #NEP-1 sealed sources; 1500 sources of 20 millicuries each, total 30 curies of Hydrogen-3 as New England Corporation units engravings painted with tritium activated luminous paint.

FACTS

By letter dated June 12, 1959, licensee reported to AEC-NY that eleven luminous buttons each containing about 60 millicuries of Hydrogen-3 on tritiated foil had been removed from equipment by persons unknown. Licensee believed loss occurred on three separate occasions during May 1959. The sources were identified as U. S. Radium Corporation Model #IAB-252-B-1 and had been obtained under subject license. All persons known to have had access to the area concerned were contacted in an effort to recover the source and a promise of no prejudice to or identification of the taker was given without results. The buttons had been installed so that they could not be removed individually but were attached to brackets on the corners of movable laboratory carts. The brackets were unscrewed from the carts and the entire units stolen. During reinspection on July 30, 1959, NY reviewed the circumstances of the incident and corrective action taken by the licensee. The method of mounting markers on laboratory carts had been revised and it appeared that now the source-holding brackets could only be removed by determined use of a hammer and chisel or other destructive attack. INS concurred with NY that no health hazard to the public appeared to exist as the result of loss of the markers.

STATUS OF COMPLIANCE

Licensee was in noncompliance with 10 CFR 30.3 in that he possessed luminous signs containing up to 100 millicuries each of Hydrogen-3 although authorized to possess only up to 20 millicuries per sign. This violation did not contribute to the loss of the material.

(continued)

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Kastman Kodak Company

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Loss of Byproduct Material

CINEMATOLOGY

July 6, 1959

July 16, 1959

July 20, 1959

July 30, 1959

August 26, 1959

October 5, 1959

October 29, 1959

INS received NY memo of July 2, 1959 reporting receipt on June 25, 1959 of licensee's letter dated June 12, 1959. INS sent memo to LAR with copy NY memo of June 2; will be reviewed during next regular inspection; copy furnished OC.

INS received from NY copy of licensee's letter of June 12, 1959. Reinspection conducted by NY.

INS sent to LAR copy licensee's letter of June 12, 1959.

INS received NY report dated September 23, 1959 of reinspection conducted July 30, 1959.

INS sent to LAR copy reinspection report; concurred with NY that licensee be cited for noncompliance with 10 CFR 30.3 but no health hazard involved in connection with missing markers.

INVESTIGATION CLOSED

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NOV 11/1/59

OFFICIAL USE ONLY

Eastman Kodak Company
Rochester, New York
License No. 31-461-16

Loss of
Hydrogen
Insultal

REMARKS
By letter dated June 12, 1959, Llanos reported that eleven Llanos units each containing about 60 milliliters of Hydrogen-3 on tritiated foil had been lost when brackets on which the buttons were installed were removed by persons unknown. All efforts to recover the source were unsuccessful. No significant radiation hazard was believed to exist as a result of possession of the source by persons unknown.

DISCUSSION
Letter from Llanos dated June 12, 1959, was received by AEC-MR on June 15, 1959, concerning loss which occurred during May 1959.

SOURCE OF LICENSE
400 sources of 60 milliliters each, total 24 curies of Hydrogen-3 as U.S. Radiat. Corp. FRAB-213-B-1; 1500 sources of 1 milliliter each, total 1.5 curies of Hydrogen-3 as New England Nuclear Corporation Model PMR-1 sealed sources; 1500 sources of 20 milliliters each, total 30 curies of Hydrogen-3 as New England Corporation units comprising painted with tritium activated Llanos paint.

DETAILS
By letter dated June 12, 1959, Llanos reported to AEC-MR that eleven Llanos buttons each containing about 60 milliliters of Hydrogen-3 on tritiated foil had been removed from equipment by persons unknown. Llanos believed loss occurred on three separate occasions during May 1959. The source was identified as U. S. Radiat. Corporation Model FRAB-213-B-1 and had been obtained under subject license. All persons known to have had access to the area concerned were contacted in an effort to recover the source and a promise of no penalty on identification of the labor was given without result. The buttons had been handled so that they could not be removed individually but were were attached to brackets on the source of variable laboratory units. The brackets were removed from the units and the units with stools. The investigation on July 30, 1959, by reviewed the circumstances of the accident and extensive action taken by the Llanos. The method of mounting sources on laboratory units had been revised and it appeared that now the source-holding brackets could only be removed by detaching use of a hammer and chisel or other destructive attack. The concern with IR that no limits beared to the public appeared to exist as the results of loss of the source.

STATUS OF COMPLIANCE
Llanos was in compliance with 10 CFR 20.3 in that he possessed Llanos units containing up to 100 milliliters each of Hydrogen-3 although authorized to possess only up to 20 milliliters per unit. This violation did not contribute to the loss of the material.

(continued)

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Kastman Rodak Company

Loss of Hypodermic Material

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CHRONOLOGY

July 6, 1959

IRM received MI memo of July 2, 1959 reporting receipt on June 23, 1959 of licensee's letter dated June 12, 1959. IRM sent memo to LAR with copy MI memo of June 2; will be reviewed during next regular inspection; copy furnished CC.

July 16, 1959

July 20, 1959

IRM received from MI copy of licensee's letter of June 12, 1959. Reinspection conducted by MI.

July 30, 1959

IRM sent to LAR copy licensee's letter of June 12, 1959.

August 24, 1959

IRM received MI report dated September 23, 1959 of reinspection conducted July 30, 1959.

October 5, 1959

IRM sent to LAR copy reinspection report; occurred with MI that licensee be cited for noncompliance with 10 CFR 30.3 but no health board involved in connection with missing contents.

October 20, 1959

INVESTIGATION CLOSED

DECLASSIFIED

NOV 4 1964

NOV 4 1964
DECLASSIFIED